CLAIMS LISTING

- 1. (currently amended) A stimulable phosphor screen or panel suitable for use in mammographic applications comprising a binderless phosphor layer having needle-shaped crystals, said layer not exceeding a layer thickness of 150 µm, and a support wherein an intermediate layer arrangement of an X-ray absorbing foil or layer absorbing x-rays to a lower extent, and avoiding scattering to a great extent, and, farther from the support, a stimulated light reflecting foil is present between said support and said phosphor layer.
- 2. (previously presented) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises an X-ray absorbing layer comprising a binder wherein said binder is a matrix of a polycondensation product of a metal alkoxide species, and an oxide or a hydroxide of lead metal is dispersed in said binder.
- 3.(original) A stimulable phosphor screen or panel according to claim 2, wherein said binder containing the lead compound is a matrix of an inorganic network of alkoxymetal substituted organic polymers or copolymers matrix.

- 4.(original) A stimulable phosphor screen or panel according to claim 3, wherein said matrix is derived from a crosslinking agent selected from the group consisting of dialkoxysilanes, trialkoxysilanes, tetraalkoxysilanes, titanates, zirconates and aluminates; and a colloid of silica, and wherein said matrix comprises a colloid of an oxide or a hydroxide of lead metal.
- 5.(original) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises, as an X-ray absorbing layer a layer of lead.
- 6.(original) A stimulable phosphor screen or panel according to claim 1, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 7.(original) A stimulable phosphor screen or panel according to claim 2, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 8.(cancelled)
- 9.(cancelled)
- 10.(cancelled)
- 11.(original) A phosphor screen or panel according to claim 1,
 wherein said support is selected from the group consisting
 of ceramics, glass, amorphous carbon, aluminum and
 polymeric films.

- 12.(original) A phosphor screen or panel according to claim 6, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.
- 13.(original) A phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 14.(original) A phosphor screen or panel according to claim 6, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 15.(cancelled)
- 16.(cancelled)
- 17.(original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 18.(original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 19.(cancelled)
- 20. (cancelled)

- 21.(original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 22.(original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 23.(cancelled)
- 24. (cancelled)
- 25.(original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 26.(original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 27. (cancelled)
- 28. (cancelled)
- 29. (cancelled)
- 30. (cancelled)
- 31. (cancelled)

- 32. (cancelled)
- 33. (cancelled)
- 34.(previously presented) A binderless stimulable phosphor screen or panel according to claim 1, wherein said needle-shaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 35.(previously presented) A binderless stimulable phosphor screen or panel according to claim 2, wherein said needleshaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 36. (cancelled)
- 37.(previously presented) A binderless stimulable phosphor screen according to claim 34, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 38.(previously presented) A binderless stimulable phosphor screen according to claim 35, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 39. (cancelled)
- 40. (cancelled)

- 41. (cancelled)
- 42. (cancelled)
- 43.(cancelled)
- 44. (cancelled)
- 45. (previously presented) A phosphor screen or panel according to claim 1, wherein said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 μm .
- 46.(previously presented) A phosphor screen or panel according to claim 2, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 μm .
- 47.(previously presented) A phosphor screen or panel according to claim 5, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150 µm.
- 48.(previously presented) A phosphor screen or panel according to claim 6, wherein said aluminum layer has a thickness in the range of 0.5 μm to 5 μm .
- 49.(previously presented) A phosphor screen or panel according to claim 7, wherein said aluminum layer has a thickness in the range of 0.5 μm to 5 μm .
- 50.(previously presented) A phosphor screen or panel according to claim 1, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .

- 51.(previously presented) A phosphor screen or panel according to claim 2, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 52.(previously presented) A phosphor screen or panel according to claim 5, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 53.(previously presented) A phosphor screen or panel according to claim 6, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 54.(previously presented) A phosphor screen or panel according to claim 7, wherein said support is a PET support having a thickness in the range from 100 μm to 1000 μm .
- 55.(previously presented) A phosphor screen or panel according to claim 1, wherein said support is an amorphous carbon support having a thickness in the range from 100 µm to 3000 µm.
- 56.(previously presented) A phosphor screen or panel according to claim 2, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.
- 57.(previously presented) A phosphor screen or panel according to claim 5, wherein said support is an amorphous

carbon support having a thickness in the range from 100 μm to 3000 $\mu m.$

- 58.(previously presented) A phosphor screen or panel according to claim 6, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.
- 59.(previously presented) A phosphor screen or panel according to claim 7, wherein said support is an amorphous carbon support having a thickness in the range from 100 μ m to 3000 μ m.